

FIG. 1

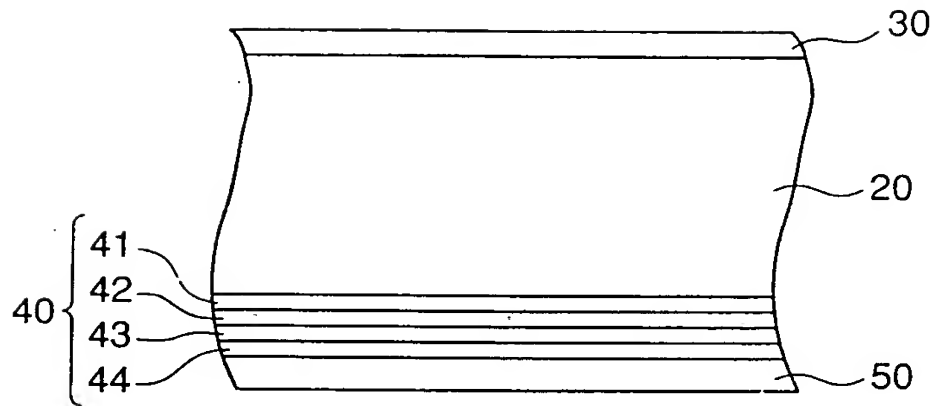


FIG. 2 (a)

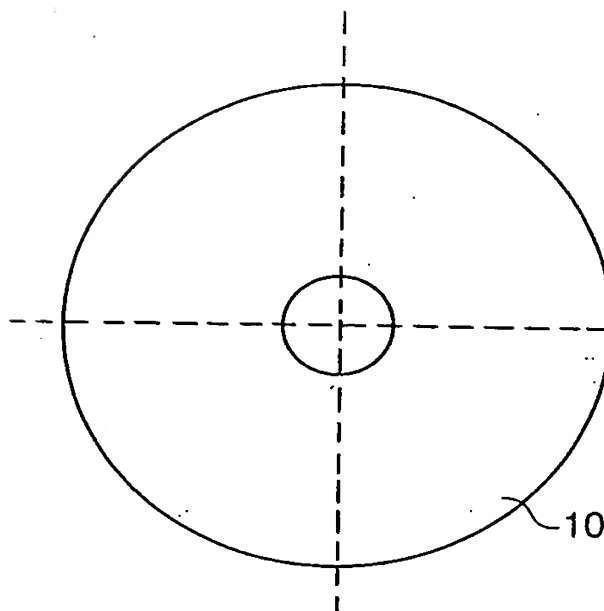
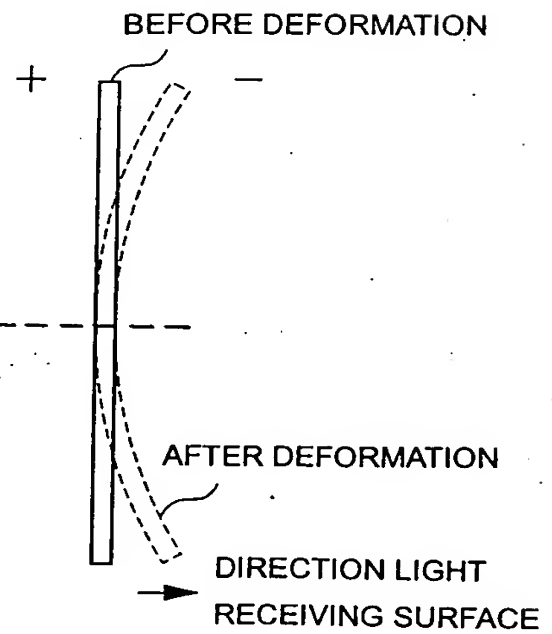
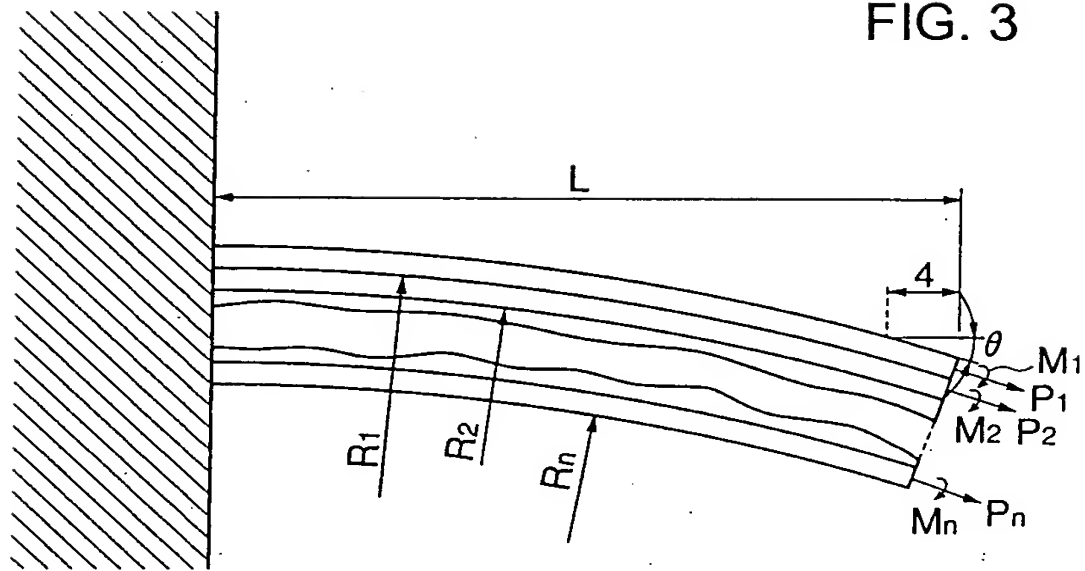


FIG. 2 (b)



10002952.44504

FIG. 3



10002053-11501

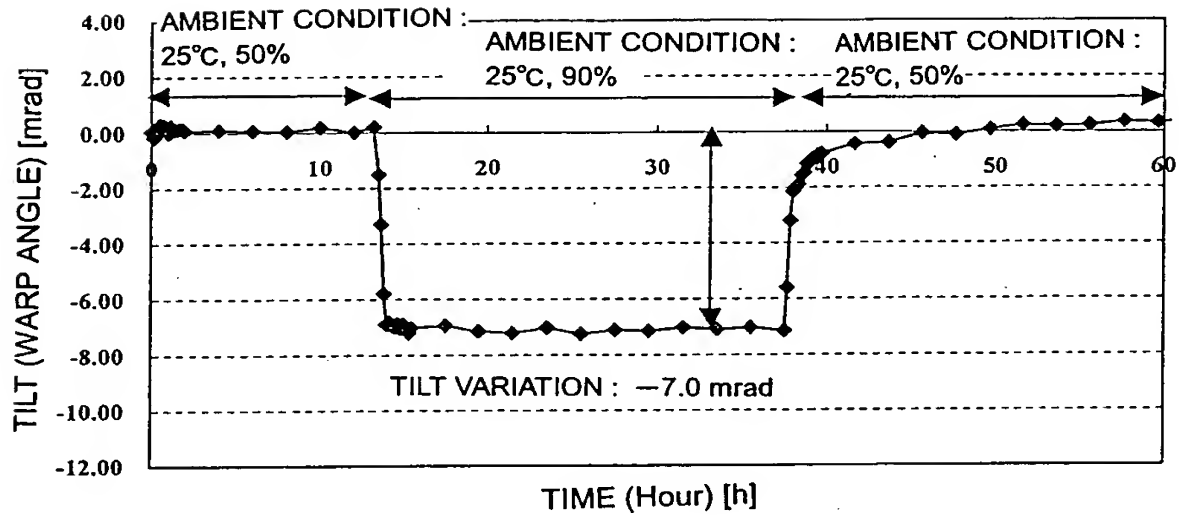
[illegible]

FIG. 5

EXAMPLE 1

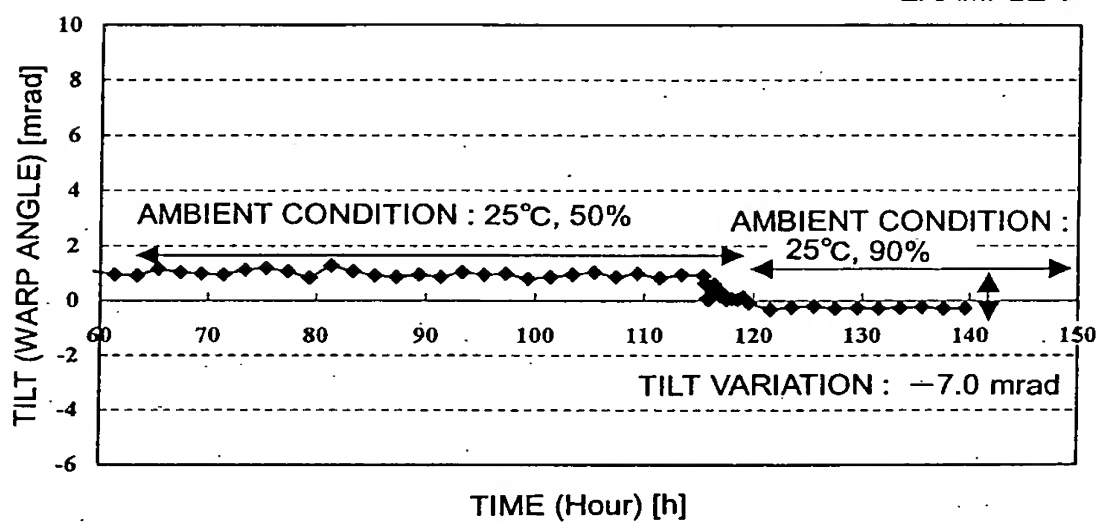


FIG. 6

EXAMPLE 2

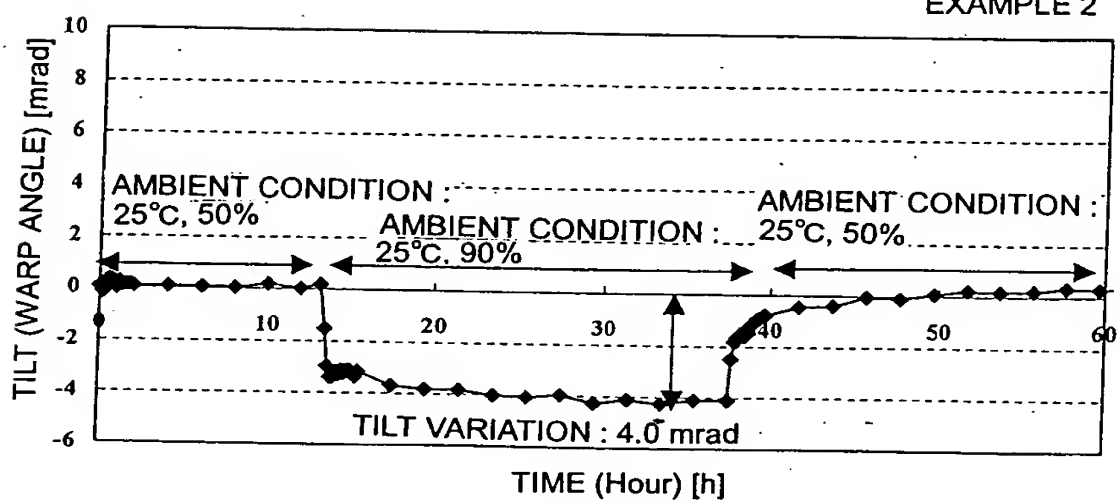


FIG. 7

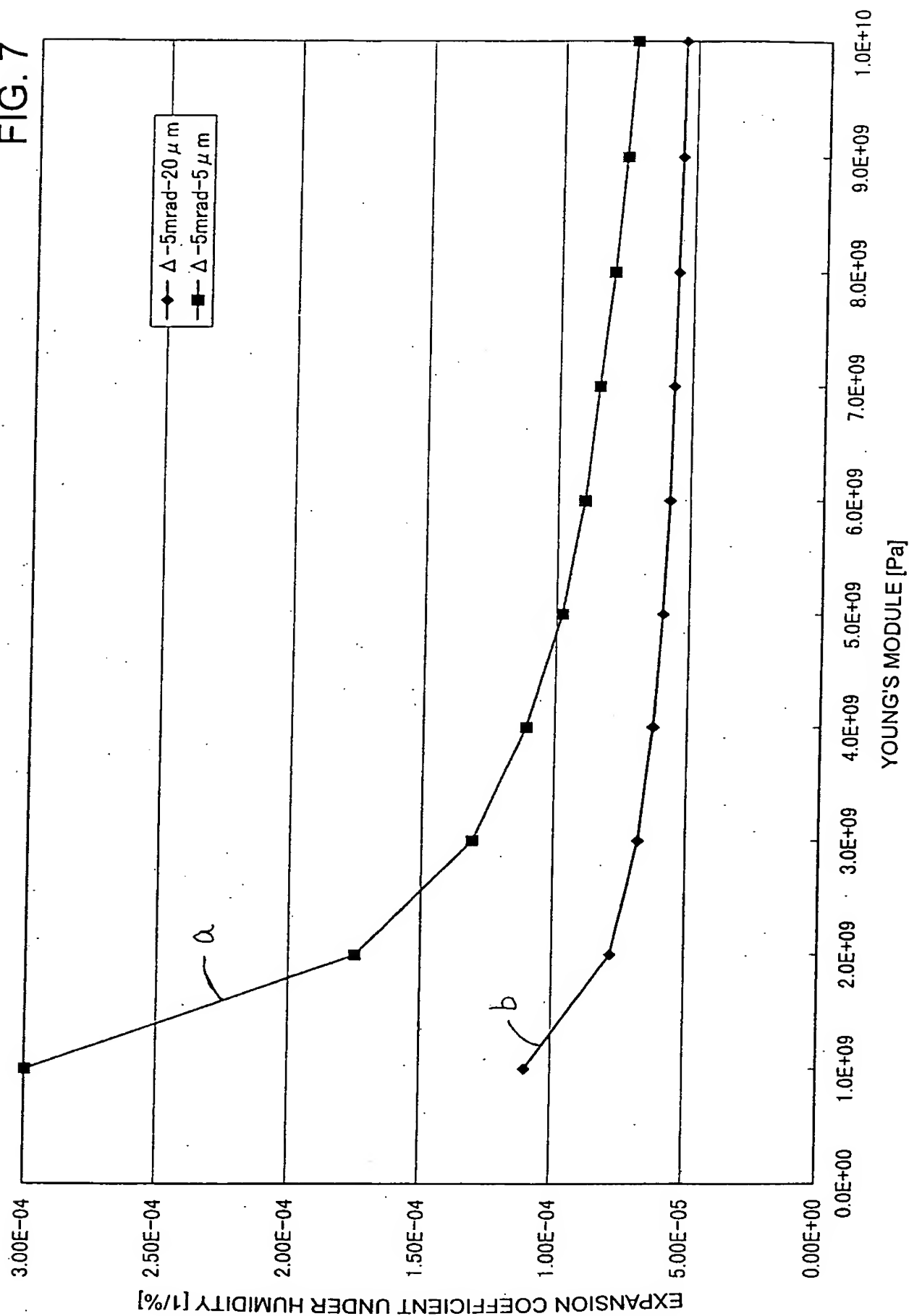


FIG. 8 (a)
PRIOR ART

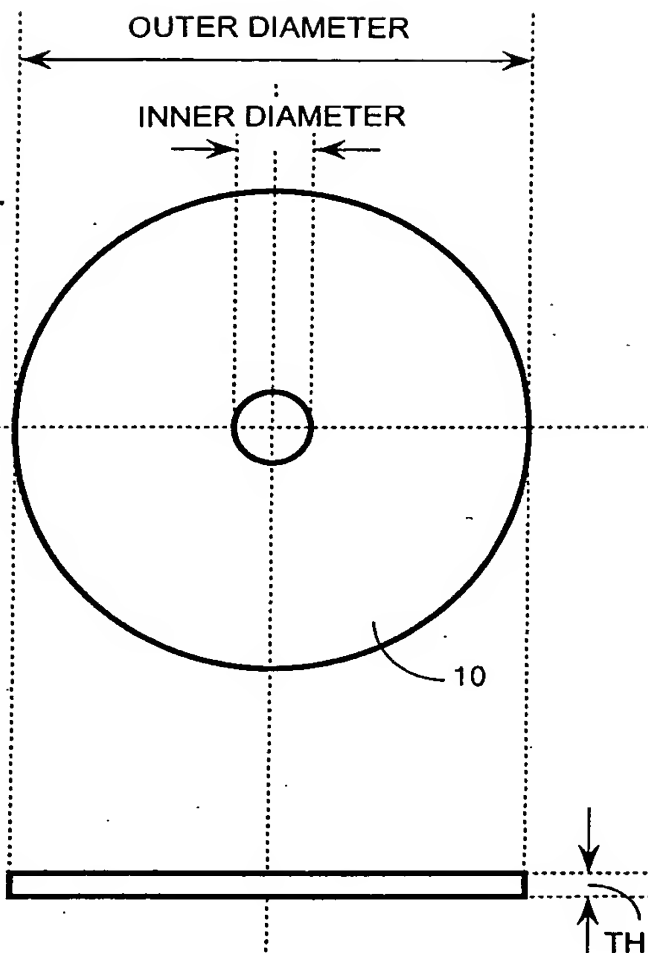


FIG. 8 (b)
PRIOR ART

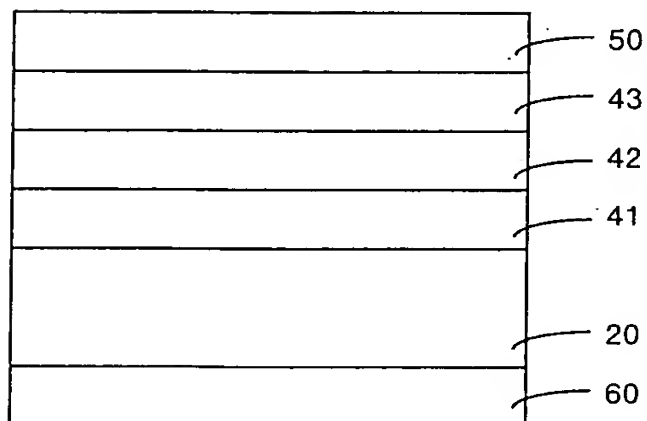
[illegible]

FIG. 10 PRIOR ART

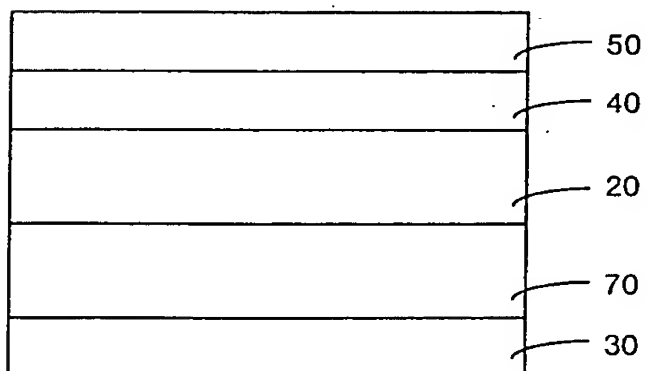


FIG. 11

EXAMPLE 1	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 1	16µm	5.40E+09	1.60E-05

FIG. 12 PRIOR ART

COMPARATIVE EXAMPLE 1	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 2	16µm	5.40E+09	6.25E-05

FOOTNOTES: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

FIG. 13

EXAMPLE 2

	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 3	16µm	9.00E+09	6.25E-05

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